Introduction

CppUnit? is a C++ unit testing module. It is a derivative of Java unit test module called JUnit. CppUnit? was originally written by Michael Feathers. The wikipedia description of unit testing is <u>here</u>.

Some advantage of CppUnit? over ad-hoc unit testing macros such as asserts are:

- Object oriented (most desired feature)
- Centered around unit testing as a concept
- Standard compiler-like text output
- Easy implementation and management (with Helper macros)
- Test registry to reduce recompilation needs

Download

Download Cppunit 1.12 at here

Install Cppunit

```
cd cppunit-1.12.0
./configure (if not working, try ./configure --disable-shared)
make
```

Try the Money example (http://cppunit.sourceforge.net/doc/1.11.6/money_example.html)

Trouble shooting

in case you encounter the following error "fatal error - unable to remap..." when installing cppunit

To resolve it, do the following things in order:

```
Quit all cygwin processes
Start ash (<cygroot>\bin\ash.exe)
Execute /usr/bin/rebaseall
```

Compilation

To compile a cpp unit problem (example.cpp), we need to compile it with the following commands:

```
g++ -g -02 -c -o example.o example.cpp
```

Then compile the executable like this:

```
g++ -g -02 -o example.exe example.o -ldl -lcppunit
```

Run Tests (on cygwin)

Suppose we want to run the constraint engine test under cygwin. We should first enter the PLASMA directory:

```
cd $PLASMA_HOME/src/PLASMA
```

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jam -sLIBRARIES=STATIC -sOS=CYGWIN -sNOCYGWIN=TRUE run-ce-module-tests